



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Zhu Yinghuai
Title: CARBORANE TRIANION
BASED CATALYST
Appl. No.: 10/668,850
Filing Date: 09/22/2003
Examiner:
Art Unit:

<p align="center">CERTIFICATE OF MAILING</p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450, on the date below.</p> <p align="center"><u>DIANE GARCIA</u> (Printed Name)</p> <p align="center"><u>Diane Garcia</u> (Signature)</p> <p align="center"><u>12-02-2003</u> (Date of Deposit)</p>
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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicant in order to comply with Applicant's duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document, except as noted below, is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to Pre-OG Notice from Office of Patent Legal Administration dated July 25, 2003, *Information Disclosure Statements May Be Filed Without*

Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicant respectfully requests that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872.

Respectfully submitted,

Date December 2, 2003

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Use as many sheets as necessary		Complete if Known	
		Application Number	10/668,850
Sheet 1 of 1		Filing Date	09/22/2003
		First Named Inventor	Zhu Yinghuai
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	033946-0301

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	4,363,747		Hawthorne et al.	12-14-1982	
	A2	5,407,884		Turner et al.	04-18-1995	
	A3	5,830,958		Peifer et al.	11-03-1998	
	A4	6,245,706		Hlatky	06-12-2001	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A5	WO	97/10248		Montell Technology Company B.V.	03-20-1997		
	A6	WO	99/05182		BP Chemicals Limited	02-04-1999		

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶	
	A7	Crowther et al., "Group 4 metal dicarbollide chemistry, synthesis, structure and reactivity of electrophilic alkyl complexes (Cp)(C ₂ B ₉ H ₁₁)M(R) (M=Hf, Zr)." Journal American Chemical Society, 113:1455-1457, 1991.		
	A8	Kim et al., "Dicarbollide analogues of the constrained-geometry polymerization catalyst." Organometallics, 20: 4298-4300, 2001.		
	A9	Wilson et al., "Development of carborane synthons: Synthesis and chemistry of (aminoalkyl) carboranes." Inorganic Chemistry, 31: 1955-1958, 1992.		
	A10	Zhu et al., "The first half-sandwich d ⁰ -metallacarboranes stabilized by metal-nitrogen sigma bond using C _(cage) -appended anionic alkylamido moiety: a synthetic investigation." Inorganic Chemistry Communications, 4:486-489, 2001.		
	A11	Zhu et al., "Synthesis and characterization of constrained-geometry half-sandwich sila- and germacarboranes derived from a trianionic C _(cage) -appended alkylxo-C ₂ B ₉ -carborane ligand." Inorganic Chemistry Communications, 5: 296-299, 2002.		
	A12	Russell N. Grimes, <u>Carboranes</u> , New York: Academic Press, 1970, p. 197-198, ISBN 75-127684.		

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.